

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/000075

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C02F 1/467

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C02F 1/46\*, C02F 1/78, C01B 13/11

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Patent and applications for inventions since 1975

Utility Models and applications for Utility Models since 1975

Japanese Utility Models and applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

KIPASS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR10-0199509B1(Youn, Young-Chan; Lec, Kang-Ju) 15 Jun. 1999 see the whole document	1-44
A	KR10-0292270B1(Kang, Nam-Soon) 01 Jun. 2001 see the whole document	1-14, 38-44
A	JP61-168135U(Kitamura; Kurogawa) 18 Oct. 1986 see the whole document	1-14, 38-44
A	JP54-41444U(Ikemoto) 19 Mar. 1979 see the whole document	1-14, 38-44

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	"&" document member of the same patent family.
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	


Date of the actual completion of the international search

28 APRIL 2004 (28.04.2004)

Date of mailing of the international search report

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Name and mailing address of the ISA/KR

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2004/000075

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR10-0199509B1	15 Jun. 1999	None	
KR10-0292270B1	01 Jun. 2001	None	
JP61-168135U	18 Oct. 1986	None	
JP54-41444U	19 Mar. 1979	None	